

# LOAN DOCUMENT

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<p>DATE RECEIVED IN DTIC</p>																																	
<p>PHOTOGRAPH THIS SHEET AND RETURN TO DTIC-FDAC</p>																																	

HANDLE WITH CARE



**Quarterly Sampling Report for  
PAFB FT-002 Groundwater Treatment  
Operational Quarter  
January-March 1994**

*Prepared for*

Plattsburgh Air Force Base  
Plattsburgh AFB, New York 12903-3506

*Prepared by*

EA Engineering, Science, and Technology  
The Maple Building  
3 Washington Center  
Newburgh, New York 12550

*April 1994*

60343.04.0002

*AQM01-04-0625*

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Laura Peña

**Telephone**

210-536-1431

**Signature**

[Signature]

**AD Number**

M01-04-0625

**QUARTERLY SAMPLING REPORT FOR  
PAFB FT-002 GROUNDWATER TREATMENT FACILITY  
OPERATIONAL QUARTER  
JANUARY-MARCH 1994**

**1. INTRODUCTION**

Pursuant to reporting obligations under Contract No. F30636-91-C0154 (EA Project No. 60343.04), EA hereby submits five copies of the Quarterly Sampling Report for the operational quarter January-March 1994. This report contains raw laboratory data from the quarterly sampling event conducted on 31 January 1994 (Appendix A). Also presented are results from ambient air and air stripper exhaust sampling (AS-05-03, AS-07-03) conducted 2 March 1994 (Appendix B). Surface water (Weapons Storage Area [WSA] stream) analytical results (SW-08-02) and spent granular activated carbon (AC-11-02) analyses conducted on 31 March 1994 are presented in Appendix C.

**2. SAMPLE DATA AND DISCUSSION**

Aqueous samples were obtained on 31 January 1994 for the following treatment facility sample locations: combined raw water influent (GW-01), clarifier effluent (TW-02), air stripper effluent (TW-03), mid-bed carbon (TW-04), and final treated water effluent (TW-06). Complete raw data packages and chain-of-custody forms are included in Appendix A. Samples were obtained and analyzed in accordance with the March 1993 Interim Sampling and Analysis Plan.

The metals clarifier unit is removing iron at an efficiency in excess of 94 percent based on an average influent level of 12 mg/L and an average clarifier effluent level of 0.68 mg/L. The average final effluent level was 0.21 mg/L for an overall removal efficiency in excess of 98 percent.

The shallow tray air stripper unit is removing volatile organics (601/602 series) at an efficiency in excess of 99 percent based on an average influent level of 8.97 mg/L and an average stripper effluent level of 0.45 mg/L. The carbon filtering beds further reduce volatile concentrations to undetectable levels. Overall removal efficiency for volatile compounds exceeded 99 percent. Please note this averaging method only includes positive detections.

The treatment plant performance data for 8270 series (semi-volatile compounds) indicates an overall plant removal to undetectable levels based upon a combined loading of 37.0  $\mu\text{g}/\text{ml}$ . Series 8270 compounds were not detected at either the TW-04 or TW-06 locations.

In accordance with the Interim Sampling and Analysis Plan, aqueous samples were collected in the WSA stream and analyzed for volatiles (EPA 601/602), semi-volatiles (EPA 8270), and total metals. Results of this analysis are presented in Appendix C. The WSA stream samples, identifiable as SW-08-02, were collected on 31 March 1994 (Sampling Event No. 24). Sampling of this media was delayed until early spring due to ice cover at the WSA stream location.

Ambient air samples were collected on 2 March 1994 from the air stripper exhaust (AS-05-03), and 100 ft outside and upwind of the treatment building. Sampled air was drawn through multicomponent sorbent traps (Tenax and Carbon). Placement of sampling devices was in accordance with the Interim Sampling and Analysis Plan. Sample pumping rates were established at 0.01 liter/minute and held continuously for 7 hours, yielding a sample volume of 4.2 L. A laboratory supplied trip blank accompanied the ambient air samples (TB-AS-03). Laboratory analysis was accomplished in accordance with EPA Method TO-1 from the EPA 600/4-84-041 compendium.

**Appendix A**

**Raw Data Package for Quarterly  
Sampling Event No. 20  
(Operational Period January-March 1994)**



## ATLANTIC TESTING LABORATORIES, Limited

P.O. Box 399  
48 LaGrasse Street  
Waddington, NY 13694  
Phone: (315) 388-4452  
Fax: (315) 388-5510

P.O. Box 29  
Canton-Potsdam Road  
Canton, NY 13617  
Phone: (315) 386-4578  
Fax: (315) 386-1012

March 3, 1994

EA Engineering, Science and Technology  
The Maple Building  
3 Washington Center  
Newburgh, New York 12550

Attn.: John Carnright

Re: Misc. Sampling and Analysis  
ATL Project Number: ELVT5012A-03-94  
ATL Sample Numbers: 94-0460 through 94-0464

Dear Mr. Carnright:

Enclosed are the analytical reports for the samples submitted by Paul VanLinder to Atlantic Testing Laboratories, Limited on January 31, 1994.

Please feel free to contact our office if we may be of any further assistance.

Sincerely,

James P. Smith, Ph. D.  
Environmental Laboratory Manager  
NYSDOH-ELAP Number 10819

JPS/sal

Enclosure



# ATL-ENVIRONMENTAL LABORATORIES

ATL REPORT NO.: VT5012-02-94

CLIENT NAME: EA Engineering, Science and Technology

ATL Accession Number	Client's ID of Sample	Parameter	Result	Date Analyzed
94-0460	GW-01-20	Total Phenols	0.037 mg/L	02/15/94
		Total Dissolved Solids	384 mg/L	02/04/94
		Total Suspended Solids	4 mg/L	02/02/94
94-0461	TW-02-20	Total Phenols	0.040 mg/L	02/15/94
		Total Dissolved Solids	483 mg/L	02/04/94
		Total Suspended Solids	12 mg/L	02/02/94
94-0464	TW-06-20	Total Phenols	<0.005 mg/L	02/15/94
		Total Dissolved Solids	452 mg/L	02/04/94
		Total Suspended Solids	<1 mg/L	02/02/94

APPROVED BY:

  
NYSDOH-ELAP NO. 10819

DATE: Mar 3 94

DISCLAIMER: All sampling services and analytical procedures are performed in accordance with recognized analytical methodologies. The full extent of any and all liability for actual and consequential damages for the services performed shall be limited to reperformance or cost of said work. ATL is not liable for data interpretation by others.

# ATL-ENVIRONMENTAL LABORATORIES

ATL PROJECT NO.: VT5012-02-94

CLIENT: EA Engineering, Science and Technology

ATL Accession Number	Client's ID of Sample	Parameter	Result (mg/L)	Date Analyzed
94-0460	GW-01-20	Total Aluminum	<0.2	02/10/94
		Total Antimony	<0.005	02/10/94
		Total Arsenic	0.006	02/03/94
		Total Barium	<0.2	02/03/94
		Total Beryllium	<0.0005	02/08/94
		Total Cadmium	<0.0005	02/03/94
		Total Calcium	71	02/08/94
		Total Chromium	<0.01 *	02/09/94
		Total Cobalt	<0.005	02/10/94
		Total Copper	<0.02	02/03/94
		Total Iron	12	02/03/94
		Total Lead	<0.003	02/08/94
		Total Magnesium	17	02/08/94
		Total Manganese	0.38	02/10/94
		Total Mercury	<0.0002	02/04/94
		Total Nickel	<0.04	02/14/94
		Total Potassium	<5	02/14/94
		Total Selenium	<0.005	02/08/94
		Total Silver	<0.0005	02/15/94
		Total Sodium	39	02/14/94
		Total Thallium	<0.005	02/10/94
		Total Vanadium	<0.01	02/15/94
		Total Zinc	<0.02	02/02/94

\* Detection limit raised due to matrix interference.

APPROVED BY:

NYSDOH-ELAP NO. 10819

DATE: Mar 3 94

# ATL-ENVIRONMENTAL LABORATORIES

ATL PROJECT NO.: VT5012-02-94

CLIENT: EA Engineering, Science and Technology

ATL Accession Number	Client's ID of Sample	Parameter	Result (mg/L)	Date Analyzed
94-0461	TW-02-20	Total Aluminum	<0.2	02/10/94
		Total Antimony	<0.005	02/10/94
		Total Arsenic	<0.005	02/03/94
		Total Barium	<0.2	02/03/94
		Total Beryllium	<0.0005	02/08/94
		Total Cadmium	<0.0005	02/03/94
		Total Calcium	13	02/08/94
		Total Chromium	<0.005	02/07/94
		Total Cobalt	<0.005	02/10/94
		Total Copper	<0.02	02/03/94
		Total Iron	0.68	02/03/94
		Total Lead	0.004	02/08/94
		Total Magnesium	13	02/08/94
		Total Manganese	0.12	02/10/94
		Total Mercury	<0.0002	02/04/94
		Total Nickel	<0.04	02/14/94
		Total Potassium	<5	02/14/94
		Total Selenium	<0.005	02/08/94
		Total Silver	<0.0005	02/15/94
		Total Sodium	161	02/14/94
		Total Thallium	<0.005	02/10/94
		Total Vanadium	<0.01	02/15/94
		Total Zinc	0.025	02/02/94

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NYSDOH-ELAP NO. 10819

DATE: Mar 3 94

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# ATL-ENVIRONMENTAL LABORATORIES

ATL PROJECT NO.: VT5012-02-94

CLIENT: EA Engineering, Science and Technology

EPA 602 Results

Date Analyzed: 02/04/94

ATL Accession Number	Client's ID of Sample	Parameter	Result (µg/L)
94-0460	GW-01-20	Benzene	210
		Toluene	940
		Ethylbenzene	410
		p-Xylene	1420 *
		Chlorobenzene	<50
		m-Xylene	*
		o-Xylene	360
		1,4-Dichlorobenzene	<50
		1,3-Dichlorobenzene	<50
		1,2-Dichlorobenzene	<50

\* These compounds co-elute. The reported value may reflect the concentration of either of the components, or a combination of both.

APPROVED BY:

  
NYSDOH-ELAP NO. 10819

DATE: Mar 3 94

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# ATL-ENVIRONMENTAL LABORATORIES

ATL PROJECT NO.: VT5012

CLIENT: EA Engineering, Science and Technology

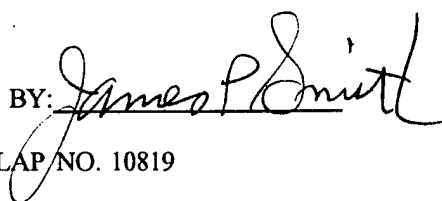
EPA 602 Results

Date Analyzed: 02/07/94

ATL Accession Number	Client's ID of Sample	Parameter	Result (µg/L)
94-0462	TW-03-20	Benzene	2.2
		Toluene	4.9
		Ethylbenzene	3.3
		p-Xylene	8.6 *
		Chlorobenzene	<0.5
		m-Xylene	*
		o-Xylene	4.8
		1,4-Dichlorobenzene	<0.5
		1,3-Dichlorobenzene	<0.5
		1,2-Dichlorobenzene	<0.5
		MTBE	<0.5

\* These compounds co-elute. The reported value may reflect the concentration of either of the components, or a combination of both.

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NYSDOH-ELAP NO. 10819

DATE: Mar 3 94

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# ATL-ENVIRONMENTAL LABORATORIES

Report Number: VT5012-02-94

Client Name: EA Engineering, Science and Technology

ATL Accession Number: 94-0460

Client Sample ID: GW-01-20

EPA 601 Results

Date Analyzed: 02/04/94

Compound	Result (ug/L)	Compound	Result (ug/L)
Chloromethane	<50	1,2-Dichloropropane	<50
Bromomethane	<50	cis-1,3-Dichloropropene	<50
Dichlorodifluoromethane	<50	Trichloroethene	1270
Vinyl Chloride	<50	Dibromochloromethane	<50
Chloroethane	<50	1,1,2-Trichloroethane	<50
Methylene Chloride	<50	trans-1,3-Dichloropropene	<50
Trichlorofluoromethane	<50	2-Chloroethylvinyl ether	<50
1,1-Dichloroethene	<50	Bromoform	<50
1,1-Dichloroethane	<50	1,1,2,2-Tetrachloroethane	<50
trans-1,2-Dichloroethene	<50	Tetrachloroethene	<50
Chloroform	<50	Chlorobenzene	<50
1,2-Dichloroethane	<50	1,3-Dichlorobenzene	<50
1,1,1-Trichloroethane	<50	1,2-Dichlorobenzene	<50
Carbon Tetrachloride	<50	1,4-Dichlorobenzene	<50
Bromodichloromethane	<50	cis-1,2-Dichloroethene	4360

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NYSDOH ELAP ID 10819

DATE: Mar. 3, '94

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# ATL-ENVIRONMENTAL LABORATORIES

ATL PROJECT NO.: VT5012-02-94

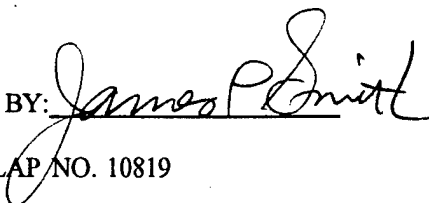
CLIENT: EA Engineering, Science and Technology

EPA 602 Results

Date Analyzed: 02/04/94

ATL Accession Number	Client's ID of Sample	Parameter	Result (µg/L)
94-0463	TW-04-20	Benzene	<0.5
		Toluene	<0.5
		Ethylbenzene	<0.5
		p-Xylene	<0.5
		Chlorobenzene	<0.5
		m-Xylene	<0.5
		o-Xylene	<0.5
		1,4-Dichlorobenzene	<0.5
		1,3-Dichlorobenzene	<0.5
		1,2-Dichlorobenzene	<0.5
		MTBE	<0.5

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NYSDOH-ELAP NO. 10819

DATE: Mar 3 94

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# ATL-ENVIRONMENTAL LABORATORIES

Report Number: VT5012-02-94

Client Name: EA Engineering, Science and Technology

ATL Accession Number: 94-0462

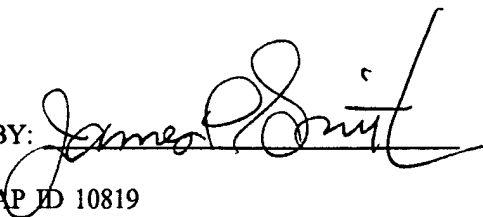
Client Sample ID: TW-03-20

EPA 601 Results

## Date Analyzed:

Compound	Result (ug/L)	Compound	Result (ug/L)
Chloromethane	<0.5	1,2-Dichloropropane	<0.5
Bromomethane	<0.5	cis-1,3-Dichloropropene	<0.5
Dichlorodifluoromethane	<0.5	Trichloroethene	7.4
Vinyl Chloride	<0.5	Dibromochloromethane	<0.5
Chloroethane	<0.5	1,1,2-Trichloroethane	<0.5
Methylene Chloride	<0.5	trans-1,3-Dichloropropene	<0.5
Trichlorofluoromethane	<0.5	2-Chloroethylvinyl ether	<0.5
1,1-Dichloroethene	<0.5	Bromoform	<0.5
1,1-Dichloroethane	<0.5	1,1,2,2-Tetrachloroethane	<0.5
trans-1,2-Dichloroethene	<0.5	Tetrachloroethene	<0.5
Chloroform	<0.5	Chlorobenzene	<0.5
1,2-Dichloroethane	<0.5	1,3-Dichlorobenzene	<0.5
1,1,1-Trichloroethane	<0.5	1,2-Dichlorobenzene	<0.5
Carbon Tetrachloride	<0.5	1,4-Dichlorobenzene	<0.5
Bromodichloromethane	<0.5	cis-1,2-Dichloroethene	14.1

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NYSDOH ELAP ID 10819

DATE: Mar 3 94

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# ATL-ENVIRONMENTAL LABORATORIES

Report Number: VT5012-02-94

Client Name: EA Engineering, Science and Technology

ATL Accession Number: 94-0463

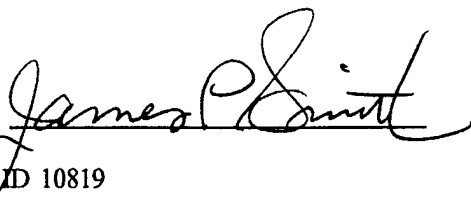
Client Sample ID: TW-04-20

EPA 601 Results

Date Analyzed: 02/04/94

Compound	Result (ug/L)	Compound	Result (ug/L)
Chloromethane	<0.5	1,2-Dichloropropane	<0.5
Bromomethane	<0.5	cis-1,3-Dichloropropene	<0.5
Dichlorodifluoromethane	<0.5	Trichloroethene	<0.5
Vinyl Chloride	<0.5	Dibromochloromethane	<0.5
Chloroethane	<0.5	1,1,2-Trichloroethane	<0.5
Methylene Chloride	<0.5	trans-1,3-Dichloropropene	<0.5
Trichlorofluoromethane	<0.5	2-Chloroethylvinyl ether	<0.5
1,1-Dichloroethene	<0.5	Bromoform	<0.5
1,1-Dichloroethane	<0.5	1,1,2,2-Tetrachloroethane	<0.5
trans-1,2-Dichloroethene	<0.5	Tetrachloroethene	<0.5
Chloroform	<0.5	Chlorobenzene	<0.5
1,2-Dichloroethane	<0.5	1,3-Dichlorobenzene	<0.5
1,1,1-Trichloroethane	<0.5	1,2-Dichlorobenzene	<0.5
Carbon Tetrachloride	<0.5	1,4-Dichlorobenzene	<0.5
Bromodichloromethane	<0.5	cis-1,2-Dichloroethene	<0.5

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# ATL-ENVIRONMENTAL LABORATORIES

ATL PROJECT NO.: VT5012-02-94

CLIENT: EA Engineering, Science and Technology

ATL Accession Number	Client's ID of Sample	Parameter	Result (mg/L)	Date Analyzed
94-0464	TW-06-20	Total Aluminum	<0.2	02/10/94
		Total Antimony	<0.005	02/10/94
		Total Arsenic	<0.005	02/03/94
		Total Barium	<0.2	02/03/94
		Total Beryllium	<0.0005	02/08/94
		Total Cadmium	<0.0005	02/03/94
		Total Calcium	7.6	02/08/94
		Total Chromium	<0.005	02/07/94
		Total Cobalt	<0.005	02/10/94
		Total Copper	<0.02	02/03/94
		Total Iron	0.21	02/03/94
		Total Lead	<0.003	02/08/94
		Total Magnesium	10	02/08/94
		Total Manganese	<0.02	02/10/94
		Total Mercury	<0.0002	02/04/94
		Total Nickel	<0.04	02/14/94
		Total Potassium	<5	02/14/94
		Total Selenium	<0.005	02/08/94
		Total Silver	<0.0005	02/15/94
		Total Sodium	147	02/14/94
		Total Thallium	<0.005	02/10/94
		Total Vanadium	<0.01	02/15/94
		Total Zinc	0.025	02/02/94

APPROVED BY:

NYSDOH-ELAP NO. 10819

DATE: Mar 3 94

# ATL-ENVIRONMENTAL LABORATORIES

ATL PROJECT NO.: VT5012-02-94

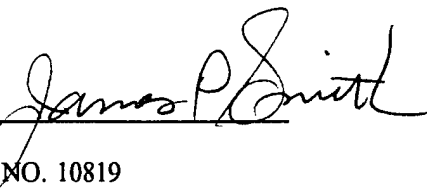
CLIENT: EA Engineering, Science and Technology

EPA 602 Results

Date Analyzed: 02/04/94

ATL Accession Number	Client's ID of Sample	Parameter	Result (µg/L)
94-0464	TW-06-20	Benzene	<0.5
		Toluene	<0.5
		Ethylbenzene	<0.5
		p-Xylene	<0.5
		Chlorobenzene	<0.5
		m-Xylene	<0.5
		o-Xylene	<0.5
		1,4-Dichlorobenzene	<0.5
		1,3-Dichlorobenzene	<0.5
		1,2-Dichlorobenzene	<0.5
		MTBE	<0.5

APPROVED BY:



DATE: Mar 3 94

NYSDOH-ELAP NO. 10819

DISCLAIMER: All sampling services and analytical procedures are performed in accordance with recognized analytical methodologies. The full extent of any and all liability for actual and consequential damages for the services performed shall be limited to reperformance or cost of said work. ATL is not liable for data interpretation by others.

# ATL-ENVIRONMENTAL LABORATORIES

Report Number: VT5012-02-94

Client Name: EA Engineering, Science and Technology

ATL Accession Number: 94-0464

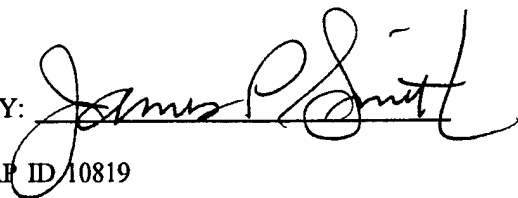
Client Sample ID: TW-06-20

EPA 601 Results

Date Analyzed: 02/04/94

Compound	Result (ug/L)	Compound	Result (ug/L)
Chloromethane	<0.5	1,2-Dichloropropane	<0.5
Bromomethane	<0.5	cis-1,3-Dichloropropene	<0.5
Dichlorodifluoromethane	<0.5	Trichloroethene	<0.5
Vinyl Chloride	<0.5	Dibromochloromethane	<0.5
Chloroethane	<0.5	1,1,2-Trichloroethane	<0.5
Methylene Chloride	<0.5	trans-1,3-Dichloropropene	<0.5
Trichlorofluoromethane	<0.5	2-Chloroethylvinyl ether	<0.5
1,1-Dichloroethene	<0.5	Bromoform	<0.5
1,1-Dichloroethane	<0.5	1,1,2,2-Tetrachloroethane	<0.5
trans-1,2-Dichloroethene	<0.5	Tetrachloroethene	<0.5
Chloroform	<0.5	Chlorobenzene	<0.5
1,2-Dichloroethane	<0.5	1,3-Dichlorobenzene	<0.5
1,1,1-Trichloroethane	<0.5	1,2-Dichlorobenzene	<0.5
Carbon Tetrachloride	<0.5	1,4-Dichlorobenzene	<0.5
Bromodichloromethane	<0.5	cis-1,2-Dichloroethene	<0.5

APPROVED BY:



NYSDOH ELAP ID 10819

DATE: Mar 3 94

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LABORATORY: TO ENSURE PAYMENT, keep green copy and return all others with a current Certificate of Insurance and IRS Form W-9 to the Originator Location (send invoices in triplicate to address below)\*

EA Engineering, Science & Technology

The Maple Blg.  
3 Washington Center  
Newburgh, NY 12550

Date of Order 31-Jan-94

Delivery Date Standard turnaround  
Project Manager Approval JAC/BAU  
Project Manager Phone # (914) 565-8100

ELV75012

Laboratory Service Order Agreement # L006522  
EA Client Reference Number 60343.04 Page 1 of 1  
Subject to Terms & Conditions printed on back OR  
Master Agreement No. ATL file VT5012A-4-93

Laboratory Name and Address:  
Atlantic Test Labs  
PO Box 29  
Canton, NY 13617  
(Waddington Lab)

CHAIN-OF-CUSTODY RECORD			Sample ID/Location No.	Parameters											Sample Cost	Remarks
Date	Time	CP		GP	601	602	Total	Phenols	EPH	8270	TDS	TSS	Metals			
31-Jan-94	16:45	PAFB-6W-01-20	201	—	44	44	302.5	33	484	33	484	94-0460	104.5	Combined groundwater Influent		
31-Jan-94	16:40	PAFB-TW-02-20	—	—	44	44	—	33	484	33	484	94-0461	561	Clarifier Effluent		
31-Jan-94	16:35	PAFB-TW-03-20	201	—	—	—	302.5	—	—	—	—	94-0462	503.5	Air Stripper Effluent		
31-Jan-94	16:29	PAFB-TW-04-20	201	—	—	—	302.5	—	—	—	—	94-0463	503.5	Carbon Filter/mid bed		
31-Jan-94	16:22	PAFB-TW-06-20	201	—	44	44	302.5	33	484	33	484	94-0464	1064.5	Finished Effluent		
31-Jan-94	16:33	TB-20	201	—	—	—	—	—	—	—	—	<del>94-0465</del> mgt	201	Trip Blank (Lab Supplied)		
Un Accessible		PAFB-SW-08-20	201	—	—	—	302.5	—	484	—	—	<del>94-0466</del> mgt	987.5	Surface Water (wash stream)		

Additional Description of Services:

- Report due 30 days from date of order. As per agreement
- QC Protocols: U.S. EPA Series 600 500 200 U.S. EPA CLP
- SW846 Explanations: CLP Navy USACE NIDEP Tier I
- Reporting Deliverables: EA Standard Report Other

4. Holding time expiration date.

- Extractions Water Soil  
Organic Analysis: VQ# Water Soil  
Pesticides/PCBs (H2O) Soil  
Semi-volatiles (H2O) Soil  
Metals Analysis: Inorganic Analysis

5. Special Conditions Attached

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A full service analytical research laboratory offering solutions to environmental concerns  
314 North Pearl Street • Albany, New York 12207 • 518 434-4546 • Fax: 518 434-0891

CLIENT: Atlantic Testing Laboratory

CLIENT'S SAMPLE ID: 94-0460

AES sample #: 940209 I01

Samples taken by: Client  
MATRIX: water

Date Sampled: 02/07/94

Date sample received: 02/09/94

Location: None-Given  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Phenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Bis(2-Chloroethyl)ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Chlorophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,3 Dichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,4 Dichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzyl Alcohol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,2 Dichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Methylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Bis(2-Chloroisopropyl)ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Methylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
N-Nitrosodi-n-propylamine	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachloroethane	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Nitrobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Isophorone	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Nitrophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dimethylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzoic Acid	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Bis(2-Chloroethoxy)methane	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dichlorophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,2,4 Trichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94



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CLIENT: Atlantic Testing Laboratory

CLIENT'S SAMPLE ID: 94-0460

AES sample #: 940209 I01

Samples taken by: Client

MATRIX: water

Date Sampled: 02/07/94

Date sample received: 02/09/94

Location: None-Given  
grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Naphthalene	EPA-8270	21	ug/l	BC-AO-50	02/15/94
4-Chloroaniline	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachlorobutadiene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Chloro-3-methylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Methylnapthalene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachlorocyclopentadiene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4,6 Trichlorophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4,5-Trichlorophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
2-Chloronapthalene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Nitroaniline	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Anthracene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Dimethyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Acenaphthylene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
3-Nitroaniline	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Acenaphthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dinitrophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
4-Nitrophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Dibenzofuran	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dinitrotoluene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,6 Dinitrotoluene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94



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CLIENT: Atlantic Testing Laboratory

CLIENT'S SAMPLE ID: 94-0460

AES sample #: 940209 I01

Samples taken by: Client

MATRIX: water

Date Sampled: 02/07/94

Date sample received: 02/09/94

Location: None-Given  
grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Diethyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Chlorophenylphenyl ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Fluorene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Nitroaniline	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
2,Methyl-4,6-dinitrophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
N-Nitrosodimethylamine	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Bromophenylphenyl ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Pentachlorophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Phenanthrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Di-n-butyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Fluoranthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Pyrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Butyl benzyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
3,3'-Dichlorobenzidine	EPA-8270	<10	ug/l	BC-AO-50	02/15/94
Benzo(a)anthracene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Bis(2-Ethylhexyl)phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Chrysene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Di-n-octyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzo(b)fluoranthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94





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CLIENT: Atlantic Testing Laboratory

CLIENT'S SAMPLE ID: 94-0460

AES sample #: 940209 I01

Samples taken by: Client

MATRIX: water

Date Sampled: 02/07/94

Date sample received: 02/09/94

Location: None-Given  
grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Benzo(k)fluoranthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzo(a)pyrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Indeno(1,2,3-cd)pyrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Dibenzo(a,h)anthracene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzo(g,h,i)perylene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
N-Nitrosodimethylamine	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Aniline	EPA-8270	<10	ug/l	BC-AO-50	02/15/94



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CLIENT: Atlantic Testing Laboratory

CLIENT'S SAMPLE ID: 94-0462

AES sample #: 940209 I02

Samples taken by: Client  
MATRIX: water

Date Sampled: 02/07/94

Date sample received: 02/09/94

Location: None-Given  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK</u>	<u>REF</u>	<u>TEST</u>	<u>DATE</u>
Phenol	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
Bis(2-Chloroethyl)ether	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
2-Chlorophenol	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
1,3 Dichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
1,4 Dichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
Benzyl Alcohol	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
1,2 Dichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
2-Methylphenol	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
Bis(2-Chloroisopropyl)ether	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
4-Methylphenol	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
N-Nitrosodi-n-propylamine	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
Hexachloroethane	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
Nitrobenzene	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
Isophorone	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
2-Nitrophenol	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
2,4 Dimethylphenol	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
Benzoic Acid	EPA-8270	<25	ug/l	BC-AO-50		02/15/94	
Bis(2-Chloroethoxy)methane	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
2,4 Dichlorophenol	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	
1,2,4 Trichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50		02/15/94	



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CLIENT: Atlantic Testing Laboratory

CLIENT'S SAMPLE ID: 94-0462

AES sample #: 940209 I02

Samples taken by: Client  
MATRIX: water

Date Sampled: 02/07/94

Date sample received: 02/09/94

Location: None-Given  
grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Naphthalene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Chloroaniline	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachlorobutadiene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Chloro-3-methylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Methylnapthalene	EPA-8270	16	ug/l	BC-AO-50	02/15/94
Hexachlorocyclopentadiene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4,6 Trichlorophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4,5-Trichlorophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
2-Chloronapthalene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Nitroaniline	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Anthracene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Dimethyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Acenaphthylene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
3-Nitroaniline	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Acenaphthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dinitrophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
4-Nitrophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Dibenzofuran	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dinitrotoluene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,6 Dinitrotoluene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94



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CLIENT: Atlantic Testing Laboratory

CLIENT'S SAMPLE ID: 94-0462

AES sample #: 940209 I02

Samples taken by: Client

MATRIX: water

Date Sampled: 02/07/94

Date sample received: 02/09/94

Location: None-Given  
grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Diethyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Chlorophenylphenyl ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Fluorene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Nitroaniline	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
2,Methyl-4,6-dinitrophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
N-Nitrosodimethylamine	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Bromophenylphenyl ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Pentachlorophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Phenanthrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Di-n-butyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Fluoranthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Pyrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Butyl benzyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
3,3'-Dichlorobenzidine	EPA-8270	<10	ug/l	BC-AO-50	02/15/94
Benzo(a)anthracene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Bis(2-Ethylhexyl)phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Chrysene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Di-n-octyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzo(b)fluoranthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94



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CLIENT: Atlantic Testing Laboratory

CLIENT'S SAMPLE ID: 94-0462

Date Sampled: 02/07/94

Date sample received: 02/09/94

AES sample #: 940209 I02

Samples taken by: Client

Location: None-Given  
grab

MATRIX: water

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Benzo(k)fluoranthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzo(a)pyrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Indeno(1,2,3-cd)pyrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Dibenzo(a,h)anthracene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzo(g,h,i)perylene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
N-Nitrosodimethylamine	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Aniline	EPA-8270	<10	ug/l	BC-AO-50	02/15/94



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CLIENT: Atlantic Testing Laboratory

CLIENT'S SAMPLE ID: 94-0463

AES sample #: 940209 I03

Samples taken by: Client  
MATRIX: water

Date Sampled: 02/07/94

Date sample received: 02/09/94

Location: None-Given  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Phenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Bis(2-Chloroethyl)ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Chlorophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,3 Dichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,4 Dichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzyl Alcohol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,2 Dichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Methylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Bis(2-Chloroisopropyl)ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Methylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
N-Nitrosodi-n-propylamine	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachloroethane	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Nitrobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Isophorone	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Nitrophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dimethylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzoic Acid	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Bis(2-Chloroethoxy)methane	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dichlorophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,2,4 Trichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94



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CLIENT: Atlantic Testing Laboratory

CLIENT'S SAMPLE ID: 94-0463

AES sample #: 940209 I03

Samples taken by: Client  
MATRIX: water

Date Sampled: 02/07/94

Date sample received: 02/09/94

Location: None-Given  
grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Naphthalene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Chloroaniline	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachlorobutadiene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Chloro-3-methylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Methylnaphthalene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachlorocyclopentadiene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4,6 Trichlorophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4,5-Trichlorophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
2-Chloronaphthalene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Nitroaniline	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Anthracene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Dimethyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Acenaphthylene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
3-Nitroaniline	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Acenaphthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dinitrophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
4-Nitrophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Dibenzofuran	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dinitrotoluene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,6 Dinitrotoluene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94



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CLIENT: Atlantic Testing Laboratory

Date Sampled: 02/07/94

CLIENT'S SAMPLE ID: 94-0463

Date sample received: 02/09/94

AES sample #: 940209 I03

Samples taken by: Client

Location: None-Given

MATRIX: water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Diethyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Chlorophenylphenyl ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Fluorene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Nitroaniline	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
2,Methyl-4,6-dinitrophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
N-Nitrosodimethylamine	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Bromophenylphenyl ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Pentachlorophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Phenanthrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Di-n-butyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Fluoranthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Pyrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Butyl benzyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
3,3'-Dichlorobenzidine	EPA-8270	<10	ug/l	BC-AO-50	02/15/94
Benzo(a)anthracene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Bis(2-Ethylhexyl)phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Chrysene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Di-n-octyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzo(b)fluoranthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94





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CLIENT: Atlantic Testing Laboratory

CLIENT'S SAMPLE ID: 94-0463

AES sample #: 940209 I03

Samples taken by: Client

MATRIX: water

Date Sampled: 02/07/94

Date sample received: 02/09/94

Location: None-Given  
grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Benzo(k)fluoranthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzo(a)pyrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Indeno(1,2,3-cd)pyrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Dibenzo(a,h)anthracene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzo(g,h,i)perylene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
N-Nitrosodimethylamine	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Aniline	EPA-8270	<10	ug/l	BC-AO-50	02/15/94



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CLIENT: Atlantic Testing Laboratory *TWOG SC* Date Sampled: 02/07/94  
CLIENT'S SAMPLE ID: 94-0464 Date sample received: 02/09/94  
AES sample #: 940209 I04 Samples taken by: Client Location: None-Given  
MATRIX: water grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Phenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Bis(2-Chloroethyl)ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Chlorophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,3 Dichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,4 Dichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzyl Alcohol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,2 Dichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Methylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Bis(2-Chloroisopropyl)ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Methylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
N-Nitrosodi-n-propylamine	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachloroethane	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Nitrobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Isophorone	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Nitrophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dimethylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzoic Acid	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Bis(2-Chloroethoxy)methane	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dichlorophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,2,4 Trichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94



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CLIENT: Atlantic Testing Laboratory

CLIENT'S SAMPLE ID: 94-0464

Date Sampled: 02/07/94

Date sample received: 02/09/94

AES sample #: 940209 I04

Samples taken by: Client

Location: None-Given  
grab

MATRIX: water

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Naphthalene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Chloroaniline	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachlorobutadiene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Chloro-3-methylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Methylnapthalene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachlorocyclopentadiene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4,6 Trichlorophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4,5-Trichlorophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
2-Chloronapthalene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Nitroaniline	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Anthracene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Dimethyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Acenaphthylene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
3-Nitroaniline	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Acenaphthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dinitrophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
4-Nitrophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Dibenzofuran	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dinitrotoluene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,6 Dinitrotoluene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94



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314 North Pearl Street • Albany, New York 12207 • 518 434-4546 • Fax: 518 434-0891

CLIENT: Atlantic Testing Laboratory

Date Sampled: 02/07/94

CLIENT'S SAMPLE ID: 94-0464

Date sample received: 02/09/94

AES sample #: 940209 I04

Samples taken by: Client

Location: None-Given

MATRIX: water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Diethyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Chlorophenylphenyl ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Fluorene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Nitroaniline	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
2,Methyl-4,6-dinitrophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
N-Nitrosodimethylamine	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Bromophenylphenyl ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Pentachlorophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Phenanthrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Di-n-butyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Fluoranthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Pyrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Butyl benzyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
3,3'-Dichlorobenzidine	EPA-8270	<10	ug/l	BC-AO-50	02/15/94
Benzo(a)anthracene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Bis(2-Ethylhexyl)phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Chrysene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Di-n-octyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzo(b)fluoranthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94



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CLIENT: Atlantic Testing Laboratory

Date Sampled: 02/07/94

CLIENT'S SAMPLE ID: 94-0464

Date sample received: 02/09/94

AES sample #: 940209 I04

Samples taken by: Client

Location: None-Given  
grab

MATRIX: water

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Benzo(k)fluoranthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzo(a)pyrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Indeno(1,2,3-cd)pyrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Dibenzo(a,h)anthracene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzo(g,h,i)perylene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
N-Nitrosodimethylamine	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Aniline	EPA-8270	<10	ug/l	BC-AO-50	02/15/94



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314 North Pearl Street • Albany, New York 12207 • 518 434-4546 • Fax: 518 434-0891

CLIENT: Atlantic Testing Laboratory

CLIENT'S SAMPLE ID: Blank 7-40

AES sample #: 940209 I05

Samples taken by: Client

MATRIX: water

Date Sampled: 02/07/94

Date sample received: 02/09/94

Location: None-Given  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Phenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Bis(2-Chloroethyl)ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Chlorophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,3 Dichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,4 Dichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzyl Alcohol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,2 Dichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Methylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Bis(2-Chloroisopropyl)ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Methylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
N-Nitrosodi-n-propylamine	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachloroethane	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Nitrobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Isophorone	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Nitrophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dimethylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzoic Acid	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Bis(2-Chloroethoxy)methane	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dichlorophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
1,2,4 Trichlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94



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CLIENT: Atlantic Testing Laboratory

Date Sampled: 02/07/94

CLIENT'S SAMPLE ID: Blank 7-40

Date sample received: 02/09/94

AES sample #: 940209 I05

Samples taken by: Client  
MATRIX: water

Location: None-Given  
grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Naphthalene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Chloroaniline	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachlorobutadiene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Chloro-3-methylphenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Methylnapthalene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachlorocyclopentadiene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4,6 Trichlorophenol	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4,5-Trichlorophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
2-Chloronaphthalene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2-Nitroaniline	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Anthracene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Dimethyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Acenaphthylene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
3-Nitroaniline	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Acenaphthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dinitrophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
4-Nitrophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Dibenzofuran	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,4 Dinitrotoluene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
2,6 Dinitrotoluene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94



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CLIENT: Atlantic Testing Laboratory

CLIENT'S SAMPLE ID: Blank 7-40

AES sample #: 940209 I05

Samples taken by: Client

MATRIX: water

Date Sampled: 02/07/94

Date sample received: 02/09/94

Location: None-Given  
grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Diethyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Chlorophenylphenyl ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Fluorene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Nitroaniline	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
2,Methyl-4,6-dinitrophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
N-Nitrosodimethylamine	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
4-Bromophenylphenyl ether	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Hexachlorobenzene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Pentachlorophenol	EPA-8270	<25	ug/l	BC-AO-50	02/15/94
Phenanthrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Di-n-butyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Fluoranthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Pyrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Butyl benzyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
3,3'-Dichlorobenzidine	EPA-8270	<10	ug/l	BC-AO-50	02/15/94
Benzo(a)anthracene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Bis(2-Ethylhexyl)phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Chrysene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Di-n-octyl phthalate	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzo(b)fluoranthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94





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CLIENT: Atlantic Testing Laboratory

Date Sampled: 02/07/94

CLIENT'S SAMPLE ID: Blank 7-40

Date sample received: 02/09/94

AES sample #: 940209 I05

Samples taken by: Client

Location: None-Given  
grab

MATRIX: water

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Benzo(k)fluoranthene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzo(a)pyrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Indeno(1,2,3-cd)pyrene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Dibenzo(a,h)anthracene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Benzo(g,h,i)perylene	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
N-Nitrosodimethylamine	EPA-8270	<5	ug/l	BC-AO-50	02/15/94
Aniline	EPA-8270	<10	ug/l	BC-AO-50	02/15/94

APPROVED BY: 

Report date: 02/28/94

# CHAIN OF CUSTODY RECORD

ENVIRONMENTAL LABORATORY  
48 LACRASSE STREET

48 LAGRASSE STREET  
WADDINGTON, NEW YORK 13694  
315-388-4452 FAX 315-388-5510

[illegible]

**THINK QUALITY**

**Appendix B**

**Quarterly Ambient Air Sampling Results  
from Sampling Event No. AS-3  
(Operational Period January-March 1994)**



ATLANTIC TESTING LABORATORIES, Limited

RECEIVED

APR 7 1994

EA Engineering, Science, and Technology  
Newburgh, NY

P.O. Box 399  
48 LaGrasse Street  
Waddington, NY 13694  
Phone: (315) 388-4452  
(315) 388-4453  
Fax: (315) 388-5510

P.O. Box 29  
Canton-Potsdam Road  
Canton, NY 13617  
Phone: (315) 386-4578  
Fax: (315) 386-1012

April 1, 1994

EA Engineering, Science and Technology  
The Maple Building  
3 Washington Center  
Newburgh, New York 12550

Attn.: John Carnright

Re: Misc. Sampling and Analysis  
ATL Project Number: ELVT5012A-03-94

Dear Mr. Carnright:

Enclosed are the analytical reports for the sample submitted by Paul VanLinder to Atlantic Testing Laboratories, Limited on March 2, 1994.

Please feel free to contact our office if we may be of any further assistance.

Sincerely,

James P. Smith, Ph. D.  
Environmental Laboratory Manager  
NYSDOH-ELAP Number 10819

JPS/sal

Enclosure



Performance Analytical Inc.  
Environmental Testing and Consulting

### LABORATORY REPORT

Client: ATLANTIC TESTING LABORATORY, LTD. Date of Report: 03/22/94  
Address: P.O. Box 399 Date Received: 03/03/94  
Waddington, NY 13694 PAI Project No: 6169  
Contact: Ms. Marjorie Fornier Purchase Order: Verbal  
Client Project ID: #60343.04

---

Three (3) Tenax Trap Samples labeled:

"PAFB-AS-05-03"

"PAFB-AS-07-03"

"PAFB-AS-TB-03"

---

The samples were received at the laboratory under chain of custody on March 3, 1994. The samples were received intact. The samples were analyzed on March 14, 1994.

#### Volatile Organic Compound Analysis

The Tenax traps were analyzed for eight Volatile Organic Compounds according to EPA Method TO-1 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April 1984. The analyses were performed using thermal desorption gas chromatography/mass spectrometry. The analytical system used for the analysis of the adsorbent trap was comprised of a Finnigan Model 4500C GC/MS/DS interfaced to a Tekmar 5010GT Automatic Desorber. A thick film (5 micron) crossbonded 100% Dimethylpolysiloxane megabore column (RT<sub>x</sub>-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data summary sheets.

---

Data Release Authorization:

Chris Parnell  
Senior Chemist

Reviewed and Approved:

Michael Tuday  
Laboratory Director



**Performance Analytical Inc.**  
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Atlantic Testing Laboratories

Client Sample ID: N/A

PAI Sample ID: PAI Method Blank

Test Code: GC/MS EPA TO-1  
Analyst: Chris Casteel  
Instrument ID: Finnigan 4500C/Tekmar 5010  
Verified by: Michael Taday

Matrix: Tenax Trap  
Date Received: N/A  
Date Analyzed: 03/14/94  
Volume Analyzed: 4.2 Liters

CAS #	COMPOUND	RESULT (UG/M <sup>3</sup> )	DETECTION LIMIT (UG/M <sup>3</sup> )	RESULT (PPB)	DETECTION LIMIT (PPB)
156-60-5	trans-1,2-Dichloroethene	ND	1.2	ND	0.31
156-59-2	cis-1,2-Dichloroethene	ND	1.2	ND	0.31
71-43-2	Benzene	ND	1.2	ND	0.38
79-01-6	Trichloroethene	ND	1.2	ND	0.23
108-88-3	Toluene	ND	1.2	ND	0.32
100-41-4	Ethylbenzene	ND	1.2	ND	0.28
1330-20-7	m- & p-Xylenes	ND	1.2	ND	0.28
95-47-6	o-Xylene	ND	1.2	ND	0.28

ND = Not Detected    TR = Trace Level - Below Indicated Detection Limit



Performance Analytical Inc.  
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Atlantic Testing Laboratories

Client Sample ID: PAFB-AS-05-03 (03/02/94) (09:50-16:50)

PAI Sample ID: 9400830

Test Code: GC/MS EPA TO-1  
Analyst: Chris Parnell  
Instrument ID: Finnigan 4500C/Tekmar 5010  
Verified by: Michael Tuday

Matrix: Tenax Trap  
Date Received: 03/03/94  
Date Analyzed: 03/14/94  
Volume Analyzed: 4.2 Liters

CAS #	COMPOUND	RESULT (UG/M <sup>3</sup> )	DETECTION LIMIT (UG/M <sup>3</sup> )	RESULT (PPB)	DETECTION LIMIT (PPB)
156-60-5	trans-1,2-Dichloroethene	ND	12	ND	3.1
156-59-2	cis-1,2-Dichloroethene	4300	12	1100	3.1
71-43-2	Benzene	320	12	100	3.8
79-01-6	Trichloroethene	1700	12	330	2.3
108-88-3	Toluene	990	12	260	3.2
100-41-4	Ethylbenzene	410	12	95	2.8
1330-20-7	m- & p-Xylenes	1500	12	340	2.8
95-47-6	o-Xylene	460	12	110	2.8

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit



**Performance Analytical Inc.**  
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Atlantic Testing Laboratories

Client Sample ID: PAFB-AS-07-03 (03/02/94) (10:00-17:00)

PAI Sample ID: 9400831

Test Code: GC/MS EPA TO-1  
Analyst: Chris Parnell  
Instrument ID: Finnigan 4500C/Tekmar 5010  
Verified by: Michael Tuday

Matrix: Tenax Trap  
Date Received: 03/03/94  
Date Analyzed: 03/14/94  
Volume Analyzed: 4.2 Liters

CAS #	COMPOUND	RESULT (UG/M <sup>3</sup> )	DETECTION LIMIT (UG/M <sup>3</sup> )	RESULT (PPB)	DETECTION LIMIT (PPB)
156-60-5	trans-1,2-Dichloroethene	ND	1.2	ND	0.31
156-59-2	cis-1,2-Dichloroethene	12	1.2	3.0	0.31
71-43-2	Benzene	9.2	1.2	2.9	0.38
79-01-6	Trichloroethene	8.6	1.2	1.6	0.23
108-88-3	Toluene	9.4	1.2	2.5	0.32
100-41-4	Ethylbenzene	2.6	1.2	0.59	0.28
1330-20-7	m- & p-Xylenes	8.4	1.2	1.9	0.28
95-47-6	o-Xylene	2.6	1.2	0.59	0.28

ND = Not Detected    TR = Trace Level - Below Indicated Detection Limit





**Performance Analytical Inc.**  
Environmental Testing and Consulting

**PERFORMANCE ANALYTICAL INC.**

**RESULTS OF ANALYSIS**

Client: Atlantic Testing Laboratories

Client Sample ID: PAFB-AS-TB-03 (03/02/94)

PAI Sample ID: 9400832

Test Code: GC/MS EPA TO-1  
Analyst: Chris Parnell  
Instrument ID: Finnigan 4500C/Tekmar 5010  
Verified by: Michael Tuday

Matrix: Tenax Trap  
Date Received: 03/03/94  
Date Analyzed: 03/14/94  
Volume Analyzed: 4.2 Liters

CAS #	COMPOUND	RESULT (UG/M <sup>3</sup> )	DETECTION LIMIT (UG/M <sup>3</sup> )	RESULT (PPB)	DETECTION LIMIT (PPB)
156-60-5	trans-1,2-Dichloroethene	ND	1.2	ND	0.31
156-59-2	cis-1,2-Dichloroethene	ND	1.2	ND	0.31
71-43-2	Benzene	0.72 TR	1.2	0.23 TR	0.38
79-01-6	Trichloroethene	ND	1.2	ND	0.23
108-88-3	Toluene	ND	1.2	ND	0.32
100-41-4	Ethylbenzene	ND	1.2	ND	0.28
1330-20-7	m- & p-Xylenes	ND	1.2	ND	0.28
95-47-6	o-Xylene	ND	1.2	ND	0.28

ND = Not Detected    TR = Trace Level - Below Indicated Detection Limit



**Performance Analytical Inc.**  
Environmental Testing and Consulting

20954 Osborne Street  
Canoga Park, California 91304  
Phone 818 709-1139  
Fax 818 709-2915

## Chain of Custody Record Analytical Services Request

Client/Project Name		Address/Phone (914) 565-8100		PAI Project No. # 4169	
Project Location		The Maple Ridge Center 3 Washington, NY 12550		ATL File VT5012A-4-93	
Contact		Client Project No.		ANALYSES	
John Carnright		60343.04			
Sample Identification No.		P.O. No.		Expected Turnaround Time	
Date		Type of Sample		Remarks	
3rd Step Time		Lab Sample No.			
PAFB-AS-05-03	2-mar-94	1950	9400830	Air	Air Stripper Exhaust
PAFB-AS-07-03	2-mar-94	1000	9400831	Air	Ambient Air 100' F
PAFB-AS-TB-03	2-mar-94	N/A	9400832	Air	TRIP Blanks
Pump #	Sample #	Sample #	Rel Hum	B.P	Temp
(05)	0.01 E/m	4.2 L			78°F
05-02-2464671	0.01 E/m	4.2 L	36%	32.9"↓	20°F
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	
[Signature]		2-mar-94	17:30	Fed-EX	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	
[Signature]				[Signature]	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	
[Signature]				[Signature]	
Disposal Method					
Disposed by: (Signature)		Date	Time	White Copy : Accompanies Samples Yellow Copy : Sampler	



**LABORATORY: TO ENSURE PAYMENT, keep green copy and return all others with a current Certificate of Insurance and the Form W-9 to the Originator Location (send invoices in triplicate to address below):**

E.A Engineering, Science & Technology Date of Order 2-mar-24

The Maple Bldg.  
3 Washington Center  
Newburgh, N.Y. 12551

Date of Order 2-mar-94  
 Delivery Date Standard Turn around  
 Project Manager Approval JNC / PAK  
 Project Manager Phone # (914) 565-8100

Laboratory Service Order Agreement # L 006530  
EA Client Reference Number 60343.04 Page 1 of 1  
Subject to Terms & Conditions printed on back OR  
Master Agreement No. ATL File VT5012A-4

[illegible]

Additional Description of Services:	Form 600-1
ATL Field Personnel on Site to Aid in Calibration of Air pumps.	

1. Report due 30 days from date of order. AS per agreement
2. QC Protocols: U.S. EPA Series 600 500 200 U.S. EPA CLP
3. Reporting Deliverables: CLP SW846 Explanations: USACE NUDEP Tier I  
EA Standard Report Navy Other

- 4. Holding time expiration date.**

- |                   |                    |      |
|-------------------|--------------------|------|
| Extractions       | Water              | Soil |
| Organic Analysis: | VOA Water          | Soil |
| Pesticides/PCBs   | (H <sub>2</sub> O) | Soil |
| Semivolatiles     | (H <sub>2</sub> O) | Soil |
| Metals Analysis:  | Inorganic Analysis |      |

5. Special Conditions Attached \_\_\_\_\_
- 2-mar-94 17:30 Federal Express  
Date Time Method of Shipment
- Fed-Ex  
Received By (Signature)
- 2-mar-94 17:30  
Date Time
- Paul W. J. ...  
Relinquished By (Signature)

- |  |                    |             |                                       |             |             |                           |
|--|--------------------|-------------|---------------------------------------|-------------|-------------|---------------------------|
| <b>Relinquished By (Signature)</b>             | <b>Date</b>        | <b>Time</b> | <b>Received By (Signature)</b>        | <b>Date</b> | <b>Time</b> | <b>Method of Shipment</b> |
|  |                    |             | C. Piccini                            | 3/3/94      | 18.35       |                           |
| <b>Relinquished By (Signature)</b>             | <b>Date</b>        | <b>Time</b> | <b>Received By (Signature)</b>        | <b>Date</b> | <b>Time</b> | <b>Method of Shipment</b> |
| EA 0507 F&B 5/1/92 White - Corporate Contracts | Green - Laboratory |             | Pink -- Originator Gold - Branch Copy |             |             |                           |

## **Appendix C**

**Quarterly Weapons Storage Area Stream  
and Activated Carbon Analysis  
from Sampling Event No. 24  
(Operational Period January-March 1994)**



**ATLANTIC TESTING LABORATORIES, limited**  
**Environmental Laboratory Division**

Event # 24

## Facsimile Transmittal Cover Sheet

### ATTENTION

The results of this transmittal are **CONFIDENTIAL**

Sent to: <i>John G. Wright</i>	Company <i>ER Engineering</i>	Phone	FAX <i>914</i> <i>565-8003</i>	
Sender <i>Lee</i>	Atlantic Testing Laboratories, Ltd P.O. Box 399, 48 LaGrasse Street Waddington, New York 13694 FAX: (315) 388-5510 Phone: 388-4452	DATE: <i>4/21</i>	TIME: <i>1400</i>	No. of pages with this cover <i>18</i>

Please contact the sender to report any error in transmission of these pages.

### ☒ ANALYTICAL RESULTS

Project No. <i>VT5012A</i>	Due Date
Sample No.(s) <i>94-1407-94-1410</i>	
Analytes/Methods <i>See Chair</i>	

☐ Sending facsimiles of final report sheets

☐ Sending preliminary data only

--

### ☐ OTHER INFORMATION

DESCRIPTION
-------------

### ☐ REPLY REQUESTED

QUESTION(S)
-------------

☒ An original copy will follow by mail

**ATL-ENVIRONMENTAL LABORATORIES****ATL PROJECT NO.: VT5012A-04-94****CLIENT: EA Engineering, Science & Technology**

ATL Accession Number	Client's ID of Sample	Parameter	Result (mg/L)	Date Analyzed
94-1408	SW-08-02	Total Aluminum	<0.2	04/13/94
		Total Antimony	<0.02 *	04/14/94
		Total Arsenic	<0.01 *	04/12/94
		Total Barium	<0.2	04/13/94
		Total Beryllium	<0.0005	04/15/94
		Total Cadmium	<0.0005	04/15/94
		Total Calcium	29	04/13/94
		Total Chromium	<0.005	04/18/94
		Total Cobalt	<0.005	04/18/94
		Total Copper	<0.02	04/11/94
		Total Iron	2.7	04/20/94
		Total Lead	<0.005	04/11/94
		Total Magnesium	8.3	04/13/94
		Total Manganese	0.66	04/20/94
		Total Mercury	<0.0002	04/12/94
		Total Nickel	<0.05	04/12/94
		Total Potassium	<5	04/20/94
		Total Selenium	<0.005	04/20/94
		Total Silver	<0.01	04/15/94
		Total Sodium	<5	04/13/94
		Total Thallium	<0.005	04/19/94
		Total Vanadium	<0.01	04/19/94
		Total Zinc	0.089	04/20/94

\* Detection limit raised due to matrix interference.

APPROVED BY: S. Brakeman  
NYSDOH-ELAP NO. 10819DATE: 4-21-94

## ATL-Environmental Laboratories

## Analytical Report

Sa No.: 94-1408

Page 1 of 2

## Semi-Volatile Priority Pollutant Organics by GC/MS

Client:	EA Engineering	ATL Job No.:	ELVT5012	Analyst:	DWR
Clt. Job No.:	60343-04 (PAFB)	ATL Sample No.:	94-1408	Method:	SW 846 8270
Clt. Sa. No.:	SW-08-02	Date Received :	4/1/94	Dilution:	1
Matrix:	Water	Date Analyzed :	4/13/94	Units:	ug/L
Comments:					

C.A.S No.	Analyte	Result (ppb)	PQL (ppb)	Q
62-75-9	n-Nitrosodimethylamine	U	5.0	
62-53-3	Aniline	U	10	
108-95-2	Phenol	U	10	
111-44-4	bis(2-Chloroethyl)ether	U	5.0	
95-57-8	2-Chlorophenol	U	10	
541-73-1	1,3-Dichlorobenzene	U	5.0	
106-46-7	1,4-Dichlorobenzene	U	5.0	
100-51-6	Benzyl alcohol	U	10	
95-50-1	1,2-Dichlorobenzene	U	5.0	
95-48-7	2-Methylphenol	U	10	
108-60-1	bis(2-chloroisopropyl)ether	U	5.0	
107-44-5	4-Methylphenol	U	10	
621-64-7	n-Nitroso-di-n-propylamine	U	5.0	
67-72-1	Hexachloroethane	U	5.0	
98-95-3	Nitrobenzene	U	5.0	
78-95-1	Isophorone	U	5.0	
88-75-5	2-Nitrophenol	U	10	
105-67-9	2,4-Dimethylphenol	U	10	
111-91-1	bis(2-Chloroethoxy)methane	U	5.0	
65-85-0	Benzoic acid	U	25	
120-83-2	2,4-Dichlorophenol	U	10	
120-82-1	1,2,4-Trichlorobenzene	U	5.0	
91-20-3	Naphthalene	U	5.0	
106-47-8	4-Chloroaniline	U	10	
87-68-3	Hexachlorobutadiene	U	5.0	
59-50-7	4-Chloro-3-methylphenol	U	10	
91-57-6	2-Methylnaphthalene	U	5.0	
77-47-4	Hexachlorocyclopentadiene	U	5.0	
88-06-2	2,4,6-Trichlorophenol	U	10	
95-95-4	2,4,5-Trichlorophenol	U	10	
91-58-7	2-Chloronaphthalene	U	5.0	
88-74-4	2-Nitroaniline	U	10	
131-11-3	Dimethylphthalate	U	5.0	
208-96-8	Acenaphthylene	U	5.0	
606-20-2	2,6-Dinitrotoluene	U	5.0	
99-09-2	3-Nitroaniline	U	10	
83-32-9	Acenaphthene	U	5.0	
51-28-5	2,4-Dinitrophenol	U	20	
132-64-9	Dibenzofuran	U	5.0	

U = Result below PQL (Practical Quantitation Limit)

B = Analyte found in associated Method Blank

Q = Data Qualifier

J = Estimated Value

continued next page...

## ATL-Environmental Laboratories

## Analytical Report

Sa No.: 94-1408

Page 2 of 2

## Semi-Volatile Priority Pollutant Organics by GC/MS

Client:	EA Engineering	ATL Job No.:	ELVT5012	Analyst:	DWR
Cl. Job No.:	60343-04 (PAFB)	ATL Sample No.:	94-1408	Method:	SW 846 8270
Cl. Sa. No.:	SW-08-02	Date Received :	4/1/94	Dilution:	1
Matrix:	Water	Date Analyzed :	4/13/94	Units:	ug/L
Comments:					

C.A.S No.	Analyte	Result (ppb)	PQL (ppb)	Q
100-02-7	4-Nitrophenol	U	20	
121-14-2	2,4-Dinitrotoluene	U	5.0	
84-66-2	Diethylphthalate	U	5.0	
7005-72-3	4-Chlorophenyl-phenylether	U	5.0	
86-73-7	Fluorene	U	5.0	
100-01-6	4-Nitroaniline	U	10	
534-52-1	4,6-Dinitro-2-methylphenol	U	20	
86-30-6	n-Nitrosodiphenylamine	U	5.0	
122-66-7	1,2-Diphenylhydrazine	U	5.0	
101-55-3	4-Bromophenyl-phenylether	U	5.0	
118-74-1	Hexachlorobenzene	U	5.0	
87-86-5	Pentachlorophenol	U	20	
85-01-8	Phenanthrene	U	5.0	
120-12-7	Anthracene	U	5.0	
84-74-2	Di-n-butylphthalate	U	5.0	
206-44-0	Pyrene	U	5.0	
129-00-0	Fluoranthene	U	5.0	
92-87-5	Benzidine	U	25	
85-68-7	Butylbenzylphthalate	U	5.0	
91-94-1	3,3'-Dichlorobenzidine	U	10	
56-55-3	Benzo[a]anthracene	U	5.0	
117-81-7	bis(2-Ethylhexyl)phthalate	U	5.0	
218-01-9	Chrysene	U	5.0	
117-84-0	Di-n-octylphthalate	U	5.0	
205-99-2	Benzo[b]fluoranthene	U	5.0	
207-08-9	Benzo[k]fluoranthene	U	5.0	
50-32-8	Benzo[a]pyrene	U	5.0	
193-39-5	Indeno[1,2,3-cd]pyrene	U	5.0	
53-70-3	Dibenz[a,h]anthracene	U	5.0	
191-24-2	Benzo[g,h,i]perylene	U	5.0	

U = Result below PQL (Practical Quantitation Limit)

B = Analyte found in associated Method Blank

Q = Data Qualifier

J = Estimated Value

Surrogates	%Rec	Limits	Q
2-Fluorophenol	46	21-100	
Phenol-d5	22	10- 94	
Nitrobenzene-d5	70	35-114	
2-Fluorobiphenyl	71	43-116	
2,4,6-Tribromophenol	84	10-123	
Terphenyl-d14	91	33-141	



# ATL-ENVIRONMENTAL LABORATORIES

Report Number: VT5012A-04-94

Client Name: EA Engineering, Science and Technology

ATL Accession Number: 94-1408

Client Sample ID: SW-08-02

EPA 601 Results

Date Analyzed: 04/06/94

Compound	Result (µg/L)	Compound	Result (µg/L)
Chloromethane	<0.5	1,2-Dichloropropane	<0.5
Bromomethane	<0.5	cis-1,3-Dichloropropene	<0.5
Dichlorodifluoromethane	<0.5	Trichloroethene	21.8
Vinyl Chloride	7.6	Dibromochloromethane	<0.5
Chloroethane	<0.5	1,1,2-Trichloroethane	<0.5
Methylene Chloride	<0.5	trans-1,3-Dichloropropene	<0.5
Trichlorofluoromethane	<0.5	2-Chloroethylvinyl ether	<0.5
1,1-Dichloroethene	<0.5	Bromoform	<0.5
1,1-Dichloroethane	<0.5	1,1,2,2-Tetrachloroethane	<0.5
trans-1,2-Dichloroethene	<0.5	Tetrachloroethene	<0.5
Chloroform	<0.5	Chlorobenzene	<0.5
1,2-Dichloroethane	<0.5	1,3-Dichlorobenzene	<0.5
1,1,1-Trichloroethane	<0.5	1,2-Dichlorobenzene	<0.5
Carbon Tetrachloride	<0.5	1,4-Dichlorobenzene	<0.5
Bromodichloromethane	<0.5	cis-1,2-Dichloroethene	29.6

APPROVED BY: C. M. Kelly  
 NYSDOH ELAP ID 10819

DATE: 4.18.94

DISCLAIMER: All sampling services and analytical procedures are performed in accordance with recognized analytical methodologies. The full extent of any and all liability for actual and consequential damages for the services performed shall be limited to reperformance or cost of said work. ATL is not liable for data interpretation by others.

**ATL-ENVIRONMENTAL LABORATORIES**

Report Number: VT5012A-04-94

Client Name: EA Engineering, Science and Technology

ATL Accession Number: 94-1409

Client Sample ID: TB-24

EPA 601 Results

Date Analyzed: 04/06/94

Compound	Result (µg/L)	Compound	Result (µg/L)
Chloromethane	<0.5	1,2-Dichloropropane	<0.5
Bromomethane	<0.5	cis-1,3-Dichloropropene	<0.5
Dichlorodifluoromethane	<0.5	Trichloroethene	<0.5
Vinyl Chloride	<0.5	Dibromochloromethane	<0.5
Chloroethane	<0.5	1,1,2-Trichloroethane	<0.5
Methylene Chloride	<0.5	trans-1,3-Dichloropropene	<0.5
Trichlorofluoromethane	<0.5	2-Chloroethylvinyl ether	<0.5
1,1-Dichloroethene	<0.5	Bromoform	<0.5
1,1-Dichloroethane	<0.5	1,1,2,2-Tetrachloroethane	<0.5
trans-1,2-Dichloroethene	<0.5	Tetrachloroethene	<0.5
Chloroform	<0.5	Chlorobenzene	<0.5
1,2-Dichloroethane	<0.5	1,3-Dichlorobenzene	<0.5
1,1,1-Trichloroethane	<0.5	1,2-Dichlorobenzene	<0.5
Carbon Tetrachloride	<0.5	1,4-Dichlorobenzene	<0.5
Bromodichloromethane	<0.5	cis-1,2-Dichloroethene	<0.5

APPROVED BY: S.M. KLM  
NYSDOH ELAP ID 10819DATE: 4-18-94

DISCLAIMER: All sampling services and analytical procedures are performed in accordance with recognized analytical methodologies. The full extent of any and all liability for actual and consequential damages for the services performed shall be limited to reperformance or cost of said work. ATL is not liable for data interpretation by others.

**ATL-ENVIRONMENTAL LABORATORIES**

**ATL PROJECT NO.: VT5012A-04-94**  
**CLIENT: EA Engineering, Science & Technology**  
**EPA 602 Results**

**Date Analyzed: 04/06/94**

ATL Accession Number	Client's ID of Sample	Parameter	Result (µg/L)
94-1408	SW-08-02	Benzene	1.0
		Toluene	<0.5
		Ethylbenzene	<0.5
		p-Xylene	<0.5
		Chlorobenzene	<0.5
		m-Xylene	<0.5
		o-Xylene	0.6
		1,4-Dichlorobenzene	<0.5
		1,3-Dichlorobenzene	<0.5
		1,2-Dichlorobenzene	<0.5

APPROVED BY: C. M. K. M.  
NYSIDOH-ELAP NO. 10819

DATE: 4-18-94

DISCLAIMER: All sampling services and analytical procedures are performed in accordance with recognized analytical methodologies. The full extent of any and all liability for actual and consequential damages for the services performed shall be limited to reperformance or cost of said work. ATL is not liable for data interpretation by others.

**ATL-ENVIRONMENTAL LABORATORIES****ATL REPORT NO.: VT5012A-04-94****CLIENT NAME: EA Engineering, Science and Technology**

ATL Accession Number	Client's ID of Sample	Parameter	Result	Date Analyzed
94-1407	TW-06-24	Total Phenols	<0.005 mg/L	04/06/94
		Total Suspended Solids	2 mg/L	04/04/94
		Total Dissolved Solids	379 mg/L	04/07/94
		Ignitability	129°F	04/05/94
94-1410	AC-11-02	Corrosivity	8.98 S.U.	04/05/94
		Percent Solids	32.1 %	04/05/94

APPROVED BY:   
NYSDOH-ELAP NO. 10819DATE: 4/18/94

DISCLAIMER: All sampling services and analytical procedures are performed in accordance with recognized analytical methodologies. The full extent of any and all liability for actual and consequential damages for the services performed shall be limited to reperformance or cost of said work. ATL is not liable for data interpretation by others.

**ATL-ENVIRONMENTAL LABORATORIES**

**ATL PROJECT NO.: VT5012A-04-94**  
**CLIENT: EA Engineering, Science & Technology**  
**TCLP METALS RESULTS**

ATL ACCESSION #	CLIENT'S ID OF SAMPLE	PARAMETER	SPIKE RECOVERY	RESULT (mg/L)	DATE ANALYZED
94-1410	AC-11-02	Arsenic	109.8 %	<0.005	04/12/94
		Barium	105.8 %	1.5	04/13/94
		Cadmium	101.7 %	<0.02	04/20/94
		Chromium	82.5 %	<0.05	04/20/94
		Lead	91.5 %	<0.2	04/19/94
		Mercury	102.6 %	0.003	04/12/94
		Selenium	92.0 %	<0.005	04/20/94
		Silver	112.2 %	<0.01	04/15/94

APPROVED BY: S. Brakeman  
NYSDOH ELAP ID 10819

DATE: 4/21/94

DISCLAIMER: All sampling services and analytical procedures are performed in accordance with recognized analytical methodologies. The full extent of any and all liability for actual and consequential damages for the services performed shall be limited to reperformance or cost of said work. ATL is not

## ATL-Environmental Laboratories

## Analytical Report

Sa No.: 94-1410 TCLP

## Semi-Volatile TCLP Organics by GC/MS

Client:	EA Engineering	ATL Job No.:	ELVT5012	Analyst:	DWR
Clt. Job No.:	60343-04 (FAFB)	ATL Sample No.:	94-1410 TCLP	Method:	SW 846 8270
Clt. Sa. No.:	AC-11-02	Date Received :	4/1/94	Dilution:	10
Matrix:	TCLP Extract	Date Analyzed :	4/15/94	Units:	ug/L
Comments:					

C.A.S No.	TCLP Analyte	Result (ppb)	PQL (ppb)	Q
110-86-1	Pyridine	U	50	
106-46-7	1,4-Dichlorobenzene	U	50	
95-48-7	2-Methylphenol	U	100	
107-44-5	(3+4)-Methylphenol	U	100	
67-72-1	Hexachloroethane	U	50	
98-95-3	Nitrobenzene	U	50	
87-68-3	Hexachlorobutadiene	U	50	
88-06-2	2,4,6-Trichlorophenol	U	100	
95-95-4	2,4,5-Trichlorophenol	U	100	
121-14-2	2,4-Dinitrotoluene	U	50	
118-74-1	Hexachlorobenzene	U	50	
87-86-5	Pentachlorophenol	U	200	

U = Result below PQL (Practical Quantitation Limit)

B = Analyte found in associated Method Blank

Q = Data Qualifier

J = Estimated Value

Surrogates	%Rec	Limits	Q
2-Fluorophenol	13	21-100	++
Phenol-d5	11	10- 94	
Nitrobenzene-d5	67	35-114	
2-Fluorobiphenyl	62	43-116	
2,4,6-Tribromophenol	15	10-123	
Terphenyl-d14	98	33-141	

## ATL-Environmental Laboratories

## Analytical Report

Sa No.: 94-1410MS TCLP

## Semi-Volatile TCLP Organics by GC/MS

## Matrix Spike Recovery Sheet

Client:	EA Engineering	ATL Job No.:	ELVT5012	Analyst:	DWR
Clt. Job No.:	60343-04 (PAFB)	ATL Sample No.:	94-1410MS TCLP	Method:	SW 846 8270
Clt. Sa. No.:	AC-11-02 MS	Date Received :	4/1/94	Dilution:	10
Matrix:	TCLP Extract	Date Analyzed :	4/15/94	Units:	ug/L
Comments:	Matrix Spike @ 500ug/L.				

C.A.S No.	TCLP Analyte	Result (ppb)	% REC	Q
110-86-1	Pyridine	290	58	
106-46-7	1,4-Dichlorobenzene	255	51	
95-48-7	2-Methylphenol	187	37	
107-44-5	(3+4)-Methylphenol	185	37	
67-72-1	Hexachlorocyclohexane	264	53	
98-95-3	Nitrobenzene	349	70	
87-68-3	Hexachlorobutadiene	310	62	
88-06-2	2,4,6-Trichlorophenol	184	37	
95-95-4	2,4,5-Trichlorophenol	222	44	
121-14-2	2,4-Dinitrotoluene	410	82	
118-74-1	Hexachlorobenzene	461	92	
87-86-5	Pentachlorophenol	242	48	

U = Result below PQL (Practical Quantitation Limit)

B = Analyte found in associated Method Blank

Q = Data Qualifier

J = Estimated Value

Surrogates	%Rec	Limits	Q
2-Fluorophenol	16	21-100	++
Phenol-d5	12	10- 94	
Nitrobenzene-d5	69	35-114	
2-Fluorobiphenyl	64	43-116	
2,4,6-Tribromophenol	33	10-123	
Terphenyl-d14	95	33-141	

## ATL-Environmental Laboratories

## Analytical Report

Sa No.: MTHBLK835

## Semi-Volatile TCLP Organics by GC/MS

Client:	EA Engineering	ATL Job No.:	ELVT5012	Analyst:	DWR
Cl. Job No.:	60343-04 (PAFB)	ATL Sample No.:	MTHBLK835	Method:	SW 846 8270
Cl. Sa. No.:	TCLP BLANK	Date Received :	NA	Dilution:	10
Matrix:	TCLP Extract	Date Analyzed :	4/15/94	Units:	ug/L
Comments:					

C.A.S No.	TCLP Analyte	Result (ppb)	PQL (ppb)	Q
110-86-1	Pyridine	U	50	
106-46-7	1,4-Dichlorobenzene	U	50	
95-48-7	2-Methylphenol	U	100	
107-44-5	(3+4)-Methylphenol	U	100	
67-72-1	Hexachloroethane	U	50	
98-95-3	Nitrobenzene	U	50	
87-68-3	Hexachlorobutadiene	U	50	
88-06-2	2,4,6-Trichlorophenol	U	100	
95-95-4	2,4,5-Trichlorophenol	U	100	
121-14-2	2,4-Dinitrotoluene	U	50	
118-74-1	Hexachlorobenzene	U	50	
87-86-5	Pentachlorophenol	U	200	

U = Result below PQL (Practical Quantitation Limit)

B = Analyte found in associated Method Blank

Q = Data Qualifier

J = Estimated Value

Surrogates	%Rec	Limits	Q
2-Fluorophenol	51	21-100	
Phenol-d5	26	10- 94	
Nitrobenzene-d5	62	35-114	
2-Fluorobiphenyl	56	43-116	
2,4,6-Tribromophenol	84	10-123	
Terphenyl-d14	96	33-141	



## ATL-Environmental Laboratories

## Analytical Report

Sa. No.: **BLANK**

## Volatile TCLP Organics by GC/MS Purge and Trap

Client:	EA Engineering	ATL Job No.:	ELVT5012	Analyst:	JMA
Clt. Job No.:	60343.04	ATL Sample No.:	BLANK	Method:	SW 846 8240
Clt. Sa. No.:	TCLP Blank	Date Received :	4/1/94	Dilution:	1
Matrix:	TCLP Extract	Date Analyzed:	4/11/94	Units:	ug/L

Comments:

C.A.S No.	TCLP Analyte	Result (ppb)	PQL (ppb)	Q
75-01-4	Vinyl Chloride	U	10	
75-35-4	1,1-Dichloroethene	U	5	
67-66-3	Chloroform	U	5	
107-06-2	1,2-Dichloroethane	U	5	
78-93-3	2-Butanone	U	20	
56-23-5	Carbon Tetrachloride	U	5	
71-43-2	Benzene	U	5	
79-01-6	Trichloroethene	U	5	
127-18-4	Tetrachloroethene	U	5	
108-90-7	Chlorobenzene	U	5	

U = Result below PQL (Practical Quantitation Limit)

B = Analyte found in associated Method Blank

Q = Data Qualifier

J = Estimated Value

<u>Surrogates</u>	<u>%Rec</u>	<u>Limits</u>	<u>Q</u>
1,2-Dichloroethane-d4	126	76-114	++
Toluene-d8	103	88-110	
Bromofluorobenzene	97	86-115	

## ATL-Environmental Laboratories

## Analytical Report

Sa. No.: 94-1410

## Volatile TCLP Organics by GC/MS Purge and Trap

Client:	EA Engineering	ATL Job No.:	ELVT5012	Analyst:	JMA
Clt. Job No.:	60343.04	ATL Sample No.:	94-1410	Method:	SW 846 8240
Clt. Sa. No.:	Activated carbon	Date Received :	4/1/94	Dilution:	1
Matrix:	TCLP Extract	Date Analyzed:	4/11/94	Units:	ug/L
Comments:					

C.A.S No.	TCLP Analyte	Result (ppb)	PQL (ppb)	Q
75-01-4	Vinyl Chloride	U	10	
75-35-4	1,1-Dichloroethene	U	5	
67-66-3	Chloroform	U	5	
107-06-2	1,2-Dichloroethane	U	5	
78-93-3	2-Butanone	20.4	20	
56-23-5	Carbon Tetrachloride	U	5	
71-43-2	Benzene	U	5	
79-01-6	Trichloroethene	U	5	
127-18-4	Tetrachloroethene	U	5	
108-90-7	Chlorobenzene	U	5	

U = Result below PQL (Practical Quantitation Limit)

B = Analyte found in associated Method Blank

Q = Data Qualifier

J = Estimated Value

Surrogates	%Rec	Limits	Q
1,2-Dichloroethane-d4	113	76-114	
Toluene-d8	105	88-110	
Bromofluorobenzene	98	86-115	

## ATL-Environmental Laboratories

## Analytical Report

Sa. No.: 94-1410 DUP

## Volatile TCLP Organics by GC/MS Purge and Trap

Client:	EA Engineering	ATL Job No.:	ELVT5012	Analyst:	JMA
Clt. Job No.:	60343.04	ATL Sample No.:	94-1410 DUP	Method:	SW 846 8240
Clt. Sa. No.:	Activated carbon	Date Received :	4/1/94	Dilution:	1
Matrix:	TCLP Extract	Date Analyzed:	4/11/94	Units:	ug/L
Comments:	Duplicate				

C.A.S No.	TCLP Analyte	Result (ppb)	PQL (ppb)	Q
75-01-4	Vinyl Chloride	U	10	
75-35-4	1,1-Dichloroethene	U	5	
67-66-3	Chloroform	U	5	
107-06-2	1,2-Dichloroethane	U	5	
78-93-3	2-Butanone	12.9	20	J
56-23-5	Carbon Tetrachloride	U	5	
71-43-2	Benzene	U	5	
79-01-6	Trichloroethene	U	5	
127-18-4	Tetrachloroethene	U	5	
108-90-7	Chlorobenzene	U	5	

U= Result below PQL (Practical Quantitation Limit)

B= Analyte found in associated Method Blank

Q= Data Qualifier

J= Estimated Value

Surrogates	%Rec	Limits	Q
1,2-Dichloroethane-d4	61	76-114	++
Toluene-d8	100	88-110	
Bromofluorobenzene	109	86-115	

## ATL-Environmental Laboratories

## Analytical Report

Sa. No.: **94-1410 SPIKE**

## Volatile TCLP Organics by GC/MS Purge and Trap

## Matrix Spike Recovery Sheet

Client:	EA ENGINEERING	ATL Job No.:	ELVT5012	Analyst:	JMA
Cl. Job No.:	60343.04	ATL Sample No.:	94-1410 SPIKE	Method:	SW 846 8240
Cl. Sa. No.:	Activated carbon	Date Received :	4/1/94	Dilution:	1
Matrix:	TCLP Extract	Date Analyzed:	4/11/94	Units:	ug/L
Comments:	Matrix Spike 50 ug/L				

C.A.S No.	TCLP Analyte	Result (ppb)	% Rec	Q
75-01-4	Vinyl Chloride	U	NA	
75-35-4	1,1-Dichloroethene	61	121	
67-66-3	Chloroform	U	NA	
107-06-2	1,2-Dichloroethane	U	NA	
78-93-3	2-Butanone	23	NA	
56-23-5	Carbon Tetrachloride	U	NA	
71-43-2	Benzene	52	104	
79-01-6	Trichloroethene	49	97	
127-18-4	Tetrachloroethene	U	NA	
108-90-7	Chlorobenzene	52	104	

U= Result below PQL (Practical Quantitation Limit)

B= Analyte found in associated Method Blank

Q= Data Qualifier

J= Estimated Value

Surrogates  
 1,2-Dichloroethane-d4  
 Toluene-d8  
 Bromofluorobenzene

%Rec  
 127  
 105  
 96

Limits  
 76-114  
 88-110  
 86-115

Q  
 +



EL VI 5012 -

LABORATORY: TO ENSURE PAYMENT, keep green copy and return all others with a current Certificate of Insurance and IRS Form W-9 to the Originator Location (send invoices in triplicate to address below):

EA Engineering, Science & Technology Date of Order 31-mar-94  
The Maple bldg. Delivery Date Standard Turn Around  
3 Washington Center Project Manager Approval JAC/PAC  
Newburgh, NY 12550 Project Manager Phone # (914) 545-8100

Laboratory Service Order Agreement

Laboratory Service Order Agreement # L 002650  
EA Client Reference Number 60343.04 Page 1 of 1  
Subject to Terms & Conditions printed on back OR  
Master Agreement No. ATL File VISO2A-4-93  
Laboratory Name and Address  
Atlantic Test Labs  
PO Box 29  
Canterbury, NY 13617  
(waddington Lab)

CHAIN OF CUSTODY RECORD		Sample ID/Location No.	Parameters										Sample Cost	Remarks
Date	Time		PH	601	609	8270	Total Phenols	Total Metals	TSS/705	72L	Conductivity	sp.118		
31-mar-94	15:30	TW-06-24	2.01	3.035	44	484	33	1	1	1	1	94-187104.5	Finished Effluent	
31-mar-94	15:45	SW-08-02	2.01	3.025	1	484	1	1	1	1	1	94-168987.5	Surface water (usa stream)	
31-mar-94	10:23	TB-24	8.01	1	1	1	1	1	1	1	1	94-1409201	Trip Blank (Lab supplied)	
31-mar-94	10:18	AC-11-02	1	1	1	1	13035	45	22	22	22	94-1401307.5	Activated Carbon Sample	
Total Cost \$ 3560.5														

Additional Description of Services:

- Report due 30 days from date of order. AS per agreement
- QC Protocols: U.S. EPA Series 600 500 200 U.S. EPA CLP  
SW846 Explanations: CLP New USACE NIDEP Tier I
- Reporting Deliverables: CLP New USACE NIDEP Tier I  
EA Standard Report Other

4. Holding time expiration date.

Extractions: Water Soil  
Organic Analysis: VOA Water Soil  
Pesticides/PCBs (H2O) Soil  
Semivolatiles (H2O) Soil  
Metals Analysis: Inorganic Analysis

5. Special Conditions Attached

Received By (Signature)  
Paul W. L...

Date 31-mar-94 16:30

Received By (Signature)  
Federal Express

Date 31-mar-94 16:30

Method of Shipment Fed-EX

Relinquished By (Signature)

Date

Time

Received By (Signature)

Date

Time

Method of Shipment

Relinquished By (Signature)

Date

Time

Received By (Signature)

Date

Time

Method of Shipment